

Application No. 10/614,114
Amendment dated September 16, 2005
Response to July 19, 2005 Office communication

Amendments to the Claims:

This listing of claims will replace all prior versions of and listings of claims in the application:

Listing of Claims:

Claims 1-56 (canceled without prejudice or disclaimer).

57 (currently amended): A substrate coated with an essentially water-free composition, wherein said composition comprises a superabsorbent polymer that absorbs greater than 100 times its weight in water in combination with a material for lubricating a surface wherein said material for lubricating a surface comprises:

(1) a lubricating metal and alloy thereof, lubricating metal chalcogenide oxide, halide, ~~nitride~~, carbonate, silicate or ~~and~~ phosphate, or a particulate lubricating metal nitride, or a carbon lubricant; or

(2) a silicate ester, polyphenyl ether, organic phosphate, biphenyl, phenanthrene, or phthalocyanine compound;

(3) said material for lubricating a surface optionally containing a lubricant comprising an organic lubricant, inorganic lubricant, or a lubricant additive;

(4) or mixtures thereof.

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58 (previously presented): The substrate of claim 57 wherein said organic lubricant comprises a petroleum lubricant, synthetic lubricant, grease, or solid lubricant, or combinations thereof and wherein said additive comprises a detergent or a dispersant.

59 (previously presented): The substrate of claim 57 wherein said superabsorbent polymer is neutralized or cross-linked, and is based on acrylic acid, acrylamide, or an acrylate.

60 (previously presented): The substrate of claim 58 wherein said superabsorbent polymer is neutralized or cross-linked, and is based on acrylic acid, acrylamide, or an acrylate.

61 (previously presented): The substrate of claim 57 wherein said organic lubricant comprises a petroleum oil, an organic ester, a silicone, or a glycol, or combinations thereof.

62 (previously presented): The substrate of claim 57 wherein said substrate comprises a cable.

63 (previously presented): The substrate of claim 57 wherein said substrate comprises a wire.

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64 (canceled without prejudice or disclaimer).

65 (currently amended): A method of protecting a substrate from the affects of water or water migration comprising coating said substrate with an essentially water-free composition, wherein said composition comprises a superabsorbent polymer that absorbs greater than 100 times its weight in water in combination with a material for lubricating a surface wherein said material for lubricating a surface comprises:

(1) a lubricating metal and alloy thereof, lubricating metal chalcogenide oxide, halide, nitride, carbonate, silicate or and phosphate, or a particulate lubricating metal nitride, or a carbon lubricant; or

(2) a silicate ester, polyphenyl ether, organic phosphate, biphenyl, phenanthrene, or phthalocyanine compound;

(3) said material for lubricating a surface optionally containing a lubricant comprising an organic lubricant, inorganic lubricant, or a lubricant additive;

(4) or mixtures thereof.

66 (previously presented): The method of claim 65 wherein said organic lubricant comprises a petroleum lubricant, synthetic lubricant, grease, or solid lubricant, or combinations thereof, and said additive comprises a detergent or a dispersant.

67 (previously presented): The method of claim 65 wherein said superabsorbent polymer is neutralized or cross-linked, and is based on acrylic acid, acrylamide, or an acrylate.

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68 (previously presented): The method of claim 66 wherein said superabsorbent polymer is neutralized or cross-linked, and is based on acrylic acid, acrylamide, or an acrylate.

69 (previously presented): The method of claim 65 wherein said organic lubricant comprises a petroleum oil, an organic ester, a silicone, or a glycol, and combinations thereof.

70 (previously presented): The method of claim 65 wherein said substrate comprises a cable.

71 (previously presented): The method of claim 65 wherein said substrate comprises a wire.

72 (canceled without prejudice or disclaimer).

73 (previously presented): The substrate of claim 57 wherein the particle size of the superabsorbent polymer comprises from about less than 0.5 microns to about 300 microns.

Claims 74-75 (canceled without prejudice or disclaimer).

76 (previously presented): The method of claim 65 wherein the particle size of the

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superabsorbent polymer comprises from about less than 0.5 microns to about 300 microns.

Claims 77-86 (canceled without prejudice or disclaimer).

87 (previously presented) The substrate of any one of claims 57-63 and 73 wherein said composition is a product produced by the process of combining said superabsorbent polymer with said material for lubricating a surface.

88 (previously presented) The method of any one of claims 65-71 and 76 wherein said composition is a product produced by the process of combining said superabsorbent polymer with said material for lubricating a surface.

89 (previously presented) The substrate of one of claims 57-63 and 73 wherein said composition protects said substrate from the affects of water or water migration.

90 (previously presented) The substrate of claim 87 wherein said composition protects said substrate from the affects of water or water migration.

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91 (new): The substrate of one of claims 57 or 65 wherein said :

(1) lubricating metal and alloy thereof, lubricating metal chalcogenide halide, carbonate, silicate or phosphate, or a particulate lubricating metal nitride, or a carbon lubricant; surface comprises;

molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, boron nitride, silver sulfate, cadmium chloride, cadmium iodide, cadmium oxide, borax, basic white lead, lead carbonate, lead monoxide, lead iodide, asbestos, talc, mica, zinc oxide, zinc phosphate, iron phosphate, manganese phosphate, carbon, graphite, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.